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CURRICULUM VITAE

Cris Pedregal Martin

EDUCATION

Ph.D. Computer Science	Univ. of Massachusetts, 2002	Amherst, Mass.
M.S. Computer Science	Univ. of Massachusetts, 1994	Amherst, Mass.
Licenciado Informática	ESLAI (Univ. of Luján), 1988	Argentina

RESEARCH EXPERIENCE

2002 **University of New Mexico** Albuquerque, N.M.

- Investigated transactional recovery in novel applications and platforms; system tradeoffs in novel architectures; information technology infrastructure decay.

1994-2001 **University of Massachusetts** Amherst, Mass.

- Investigated foundations of transactional recovery, from databases to mobile to electronic commerce systems; research was central to multi-year $300K NSF grant.
- Designed and supervised development and deployment of database-backed web-based instructional system.
- Investigated how to provide programming language support for real-time and for advanced transactions functionality – in collaboration with Bell Labs.

Summer 1994 **Xerox PARC** Palo Alto, Calif.

- Worked in design and implementation of multimedia delivery and markup system.

Summer 1993 **GTE Labs** (Verizon) Waltham, Mass.

- Investigated integration of advanced transactions into a distributed object manager.

PUBLICATIONS

- Cris Pedregal Martin and Krithi Ramamritham: Support for Recovery in Mobile Systems (PDF), IEEE Transactions on Computers, 51(10), October 2002.
- Cris Pedregal Martin and Krithi Ramamritham: Guaranteeing Recoverability in Electronic Commerce (PDF), in *Proc. Third International Workshop on Advanced issues of E-Commerce and Web-Based Information Systems,* San Jose, Calif., 21-22 June 2001.
- Agustín Schapira, Kim De Vries, and Cris Pedregal Martin: MANIC: An Open-Source System to Create and Deliver Courses over the Internet (HTML, PDF), in *Proc. 2001 Symposium On Applications and the Internet (IEEE Computer Society Press)*, San Diego, Calif., 11-12 January 2001
- Cris Pedregal Martin and Krithi Ramamritham: Recovery Guarantees in Mobile Systems, (PDF), in *Proc. International Workshop on Data Engineering for Wireless and Mobile Access*, Seattle, Wash., 20 August 1999.
- Cris Pedregal Martin and Krithi Ramamritham: Toward Formalizing Recovery of (Advanced) Transactions (PDF), in *Advanced Transaction Models and Architectures*, S. Jajodia and L. Kerschberg, editors, Kluwer, Boston, 1997.
- Cris Pedregal Martin and Krithi Ramamritham: Delegation: Efficiently Rewriting History (PDF), In *Proc. of the Thirteenth International Conference on Data Engineering*, Birmingham, UK, 7-11 April 1997.

REFERENCES

Prof. Krithi Ramamritham – email: krithi@cs.umass.edu

Prof. David Stemple – email: stemple@cs.umass.edu

Prof. Eliot Moss – email: moss@cs.umass.edu

Prof. Rick Adrion – email: adrion@cs.umass.edu

RESEARCH & TEACHING STATEMENTS

Research: PDF, HTML: http://www-ccs.cs.umass.edu/cris/research.html

Teaching: PDF, HTML: http://www-ccs.cs.umass.edu/cris/teaching.html

TEACHING EXPERIENCE

2002 **University of New Mexico** Albuquerque, N.M.

- Taught core Computer Science courses, supervised and mentored undergraduate and graduate students, participated in undergraduate curriculum design.

1991-1995 **University of Massachusetts** Amherst, Mass.

- Redesigned, managed, and lectured two introductory CS courses.
- Assisted students and supervised TAs for intro and advanced CS classes.
- Tutored (in Spanish/English) disadvantaged students in Math and CS.

1989 **University of Buenos Aires** Argentina

- Developed and taught seminar on object-oriented concurrent languages.

1988 **ESLAI** Argentina

- Teaching assistant for advanced programming languages course.

OTHER PROFESSIONAL EXPERIENCE

2000-2001 **IGEN Corporation** Cambridge, Mass.

- Performed QA on data model for web-based enterprise diet & fitness service.
- Audited and improved security of database and web server infrastructure.

1998-2001 **University of Massachusetts** Amherst, Mass.

- Assessed needs and acquired computing equipment for several research projects

1991 **University of Massachusetts** Amherst, Mass.

- Research Assistant for Pilgrim, a joint project UMass - DEC (Compaq).

1989 **Foreign Affairs Ministry** Argentina

- Collaborated in system administration and deployment of a wide-area, mission-critical networked office workflow system with dozens of sites worldwide.

PEER REVIEWING

OOPSLA – ACM Conf. on Object-Oriented Programming, Systems, Languages, and Apps.
SIGMOD – ACM International Conference on Management of Data.
ICDE – International Conference on Data Engineering.
VLDB – Very Large Databases Conference and Journal.
Information Processing Letters (Elsevier).